

CLAIMS

In accordance with the "prototype" rules, the claims as amended are as indicated below, with amendment status as indicated.

1. (Cancelled)
2. (Previously Amended) The channel selection method of claim 8 wherein said frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.
3. (Previously Amended) A method of channel selection for a mobile station comprising:
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determining a position of said ^Dmobile station;
periodically performing channel quality measurements of signals transmitted from one or more base stations, wherein the frequency of performing said channel quality measurements is a function of said position of said mobile station; and
wherein said frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.
4. (Original) The channel selection method of claim 3 wherein said position of said at least one additional base station is transmitted to said mobile station by said first base station.

5. (Currently Amended) The channel selection method of claim 4 wherein ~~said~~
the position of said at least one additional base station is included in a neighbor list
transmitted to said mobile station by said first base station.

6-7. (Cancelled)

8. (Previously Amended) A method of channel selection for a mobile station
comprising:

determining a position of said mobile station;

periodically performing channel quality measurements of signals transmitted
from one or more base stations, wherein the frequency of performing
said channel quality measurements is a function of said position of said
mobile station; and

wherein said frequency of performing said channel quality measurements is
a function of the length of time said mobile station remains in said
position.

9. (Previously Amended) The channel selection method of claim 8 wherein said
channel quality measurements are performed by said mobile station while said mobile
station is in an idle mode.

10. (Previously Amended) The channel selection method of claim 3 wherein said
channel quality measurements are performed by said mobile station while said mobile
station is engaged in a packet switched call.

11. (Previously Amended) The channel selection method of claim 3 wherein said channel quality measurements are performed by said mobile station while said mobile station is engaged in a circuit switched call.
12. (Previously Amended) The channel selection method of claim 3 wherein said mobile station uses said channel quality measurement for cell reselection.
13. (Previously Amended) The channel selection method of claim 3 further including transmitting said channel quality measurements from said mobile station to a first base station serving said mobile station.
14. (Original) The channel selection method of claim 13 further including making hand-off determinations at said first base station based on said channel quality measurements.
15. (Original) A method of determining the position of a mobile station comprising:
determining a position of said mobile station at a first time instant; and
updating said position periodically, wherein the frequency of said updating is a function of said position of said mobile station.
16. (Original) The channel selection method of claim 15 wherein said frequency of updating said position is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.

17. (Original) The channel selection method of claim 15 wherein said frequency of updating said position is a function of the relative position of said mobile station with respect to a first base station serving said mobile station and at least one of said additional base station.

18. (Original) The channel selection method of claim 17 wherein the position of said at least one additional base station is transmitted to said mobile station by said first base station.

19. (Original) The channel selection method of claim 18 wherein said position of said at least one additional base station is included in a neighbor list transmitted to said mobile station by said first base station.

20. (Original) The channel selection method of claim 15 wherein said frequency of updating said position is a function of the mobility of said mobile station.

21. (Original) The channel selection method of claim 20 wherein said frequency of updating said position is a function the rate of change of said position of said mobile station.

22. (Original) The channel selection method of claim 20 wherein said frequency of updating said position is a function of the length of time said mobile station remains in said position.

23. (Original) The channel selection method of claim 15 wherein said updating is performed by said mobile station while said mobile station is in an idle mode.

24. (Original) The channel selection method of claim 15 wherein said updating is performed by said mobile station while said mobile station is engaged in a packet switched call.

25. (Original) The channel selection method of claim 15 wherein said updating is performed by said mobile station while said mobile station is engaged in a circuit switched call.

26. (Original) The channel selection method of claim 15 further including transmitting position information from said mobile station to said base station.

27-31.(Cancelled)

32. (Previously Amended) The mobile station of claim 36 wherein said control logic varies the frequency of performing said channel quality measurements based on the relative position of said mobile station with respect to a first base station serving said mobile station.

33. (Previously Amended) A mobile station comprising:

a transceiver for transmitting and receiving radio frequency signals;
a signal processor operatively connected to said transceiver for periodically performing channel quality measurements on selected signals received by said transceiver;
control logic for controlling said signal processor and said transceiver to vary the frequency of performing said channel quality measurements as a function of the position of said mobile station; and
wherein said control logic varies the frequency of performing said channel quality measurements based on the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.

34. (Previously Amended) The mobile station of claim 33 wherein said control logic varies the frequency of performing said channel quality measurements based on the mobility of said mobile station.

35. (Previously Amended) The mobile station of claim 33 wherein said control logic varies the frequency of performing said channel quality measurements based on the rate of change of said position of said mobile station.

36. (Previously Amended) A mobile station comprising:
- a transceiver for transmitting and receiving radio frequency signals;
 - a signal processor operatively connected to said transceiver for periodically performing channel quality measurements on selected signals received by said transceiver;
 - control logic for controlling said signal processor and said transceiver to vary the frequency of performing said channel quality measurements as a function of the position of said mobile station; and
- wherein said control logic varies the frequency of performing said channel quality measurements based on the length of time said mobile station remains in said position.
37. (Previously Amended) The mobile station of claim 33 further including a positioning receiver for determining the position of said mobile station.
38. (Original) A mobile station comprising:
- a transceiver for transmitting and receiving radio frequency signals;
 - a positioning receiver for periodically determining the position of said mobile station;
 - control logic for controlling said transceiver and said positioning receiver,
- wherein said control logic varies the frequency of determining said position of said mobile station as a function of said position.

39. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the relative position of said mobile station with respect to a first base station serving said mobile station.

40. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station.

41. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the mobility of said mobile station.

42. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the rate of change of said position of said mobile station.

43. (Original) The mobile station of claim 38 wherein said control logic varies the frequency of determining said position of said mobile station based on the length of time said mobile station remains in said position.

44. (Cancelled)

45. (Previously Amended) The control method of claim 49 wherein said frequency of performing said periodic task is a function of the relative position of said mobile station with respect to a first base station serving said mobile station.

46. (Previously Amended) A method of controlling a mobile station comprising:

determining a position of said mobile station;
performing a periodic task, wherein the frequency of performing said task is a
function of said position of said mobile station; and
wherein said frequency of performing said periodic task is a function of the
relative position of said mobile station with respect to a first base station
serving said mobile station and at least one additional base station.

47. (Previously Amended) The control method of claim 46 wherein said frequency of
performing said periodic task is a function of the mobility of said mobile station.

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48. (Original) The control method of claim 47 wherein said frequency of performing
said periodic task is a function the rate of change of said position of said mobile station.

49. (Previously Amended) A method of controlling a mobile station comprising:

determining a position of said mobile station;
performing a periodic task, wherein the frequency of performing said task is a
function of said position of said mobile station; and
wherein said frequency of performing said periodic task is a function of the
length of time said mobile station remains in said position.